1. How do you display the first 10 lines of a file using the command line?

head filename

head a.txt

2. How do you display the last 5 lines of a file using the command line?

tail -n 5 filename

tail -n 5 a.txt

3. How do you sort the contents of a file in ascending order using the command line?

sort filename

sort a.txt

4. How do you count the number of occurrences of a specific word in a file using the command line?

grep -o "yourword" filename | wc -l

grep -o "a" a.txt | wc -l

5. How do you find and replace a specific word in a file using the command line?

sed -i 's/oldword/newword/g' filename

sed -i 's/ar/r/g' a.txt

6. How do you display the size of a file in human-readable format using the command line?

ls -lhs

7. How do you display the current date and time in a specific format using the command line?

date +Format

date + "%Y-%M-%D %H:%M:%S"

8. How do you find the process ID (PID) of a running process using the command line?

pgrep processname

pgrep bash

9. How do you kill a process using its process ID (PID) using the command line?

kill PID

kill 1244

10. How do you create a compressed tar archive of a directory and exclude specific files from it using the command line?

tar -czvf archive\_name.tar.gz --exclude='file1' --exclude='file2' directory\_name

tar -czvf my\_archive.tar.gz --exclude='a.txt' dir1

11. How do you set an environment variable in Linux using the command line?

export VARIABLE\_NAME=value

12. How do you list all installed packages on a Debian-based Linux distribution using the command line?

To list all installed packages on a Debian-based Linux distribution, you can use the dpkg or apt command

dpkg --get-selections

apt list --installed

13. How do you change the permissions of a file to read-only for the owner and group using the command line?

Chmod 44 filename : to give permission to specific file

14. How do you find all files with a specific extension in a directory and its subdirectories using the command line?

Find -name filename - to search specific file

Find -iname filename - case-insensitive search

Find /path/to/search -name "\*.txt" - all files with txt extension

Find /path/to/search -type d - find a direcotry

Find . -type f -name "\*.extension" - This command will search the current directory and its subdirectories for files with the specified extension.

15. How do you create a backup of a file with a timestamp in its filename using the command line?

cp filename "filename\_$(date +"%Y-%m-%d\_%H-%M-%S").bak" -

cp a.txt "a\_$(date +"%Y-%m-%d\_%H-%M-%S").bak" -

16. How do you search for a specific string in all files within a directory and its subdirectories using the command line?

grep "hello" a.txt - search for a specific string in a particular file

Grep -r "search\_string" /path/to/directory search string in all files in the specified path and its subdirectories.

Grep -r "hello" . : search string in all files within the current directory and its subdirectories.

17. How do you display the current network configuration (IP address, subnet mask, etc.) using the command line?

Ip addr show or

ifconfig

18. How do you create a new user with a specific home directory and set their password using the command line?

Sudo useradd -m -d /path/to/home\_directory username

Sudo passwd username

19. How do you display the available disk space on your system using the command line?

df -h

20. How do you schedule a command or script to run at a specific time using the cron system?

crontab -e

-this will open the cron table in the default text editor vi or nano

-now add a new line to schedule a command or script to run at the desired time.

\*\*\*\*\* command\_to\_run/scriptfilename

1st \* - minutes (0 to 59)

2nd \* - Hour (0 to 23)

3rd \* - Day of the month (1 to 31)

4th \* - Month (1 to 12)

5th \* - Day of the week (0 to 7) (Sunday is 0 , Monday is 1 etc)

Ex: 0 2 \*\*\* /path/to/scriptfile - this line runs the script every day at 2.00AM